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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/735,980	1	12/15/2003	Ramadas Lakshmikanth Pai	15137US02	4226	
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		LD & MALLOY,	FRANKLIN,	FRANKLIN, RICHARD B		
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CHICAGO,	IL 6066	l		. 2181	0	

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Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		10/735,980	PAI ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Richard Franklin	2181			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
A SH WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANS IN THE MAIL	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status			.*			
1)⊠	Responsive to communication(s) filed on 10 O	<u>ctober 2006</u> .				
2a) <u></u> ☐	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Disposit	ion of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1-17 is/are pending in the application.  4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed.  Claim(s) 1-17 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or	vn from consideration.				
Applicat	ion Papers					
•—	The specification is objected to by the Examine					
10)	The drawing(s) filed on is/are: a) acce	•				
	Applicant may not request that any objection to the					
11)⊠	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	• • • • • • • • • • • • • • • • • • • •	• •			
Priority (	ınder 35 U.S.C. § 119					
a)	Acknowledgment is made of a claim for foreign  All b) Some * c) None of:  1. Certified copies of the priority documents  2. Certified copies of the priority documents  3. Copies of the certified copies of the prior application from the International Bureau  See the attached detailed Office action for a list	s have been received. s have been received in Applicativity documents have been received in Applicative (PCT Rule 17.2(a)). of the certified copies not received FRI	on No ed in this National Stage			
Attachmen	t(s)	1ECHINUL 12	11/1an/			
_	e of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
2)	re of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) or No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			

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#### **DETAILED ACTION**

1. Claims 1 – 17 have been examined.

## Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10 October 2006 has been entered.

### Oath/Declaration

3. The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

The oath or declaration is defective because: It does not identify the citizenship of each inventor.

# Claim Objections

- 4. Claim 10 is objected to because of the following informalities:
  - Claim 10 recites the current status as "Original." However, claim 10 clearly includes an amendment, and should therefore currently be labeled "Amended."
     Appropriate correction is required.

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## **Double Patenting**

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., In re Berg, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

5. Claims 1 – 17 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1 – 17 of copending Application No. 10/736,125 (hereinafter the '125 application) in view of US Patent No. 4,704,641 (hereinafter Stohs) and further in view of US Patent No. 6,665,082 (hereinafter Takeoka).

This is a provisional obviousness-type double patenting rejection.

As per claim 1 of the current application, claim 1 of the '125 application teaches the receiving step except that the sequential data words occupy an amount of memory

in a first memory; word for word teaches the fetching step; teaches the storing the sequential portion except the identical sequential portion, in a second memory comprising less than the amount of memory occupied by the plurality of sequential data words in the first memory; and teaches two transmitting steps that are narrower than the transmitting steps of the current application.

Stohs teaches the sequential data words occupying an amount of memory in a first memory (Stohs; Figure 2 Item 203, Col 5 Lines 13 – 28); and storing the identical sequential portion (Stohs; Figure 3 Item 305, Col 6 Lines 42 – 45).

Therefore it would have been obvious to have modified the teachings of the '125 application to include the identical data storing because doing so facilitates maintaining the ordering of the data (Stohs; Col 5 Lines 25 – 28).

Takeoka teaches a data transferring system that transfers image data from a first memory (Takeoka; Figure 1 Item 12) to a second memory (Takeoka; Figure 2 Item 26). Takeoka teaches that the second memory has the capacity to store only two lines of image data (Takeoka; Col 10 Lines 27 – 30).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the teachings of the '125 application and Stohs to include the smaller memory because doing so would allow for a smaller physical size of the system.

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As per claim 2 of the current application, claim 2 of the '125 application word for word teaches the fetching step; teaches the storing the sequential portion except the identical sequential portion; and more narrowly teaches the two transmitting steps.

Stohs teaches the sequential data words occupying an amount of memory in a first memory (Stohs; Figure 2 Item 203, Col 5 Lines 13 – 28); and storing the identical sequential portion (Stohs; Figure 3 Item 305, Col 6 Lines 42 – 45).

Therefore it would have been obvious to have modified the teachings of the '125 application to include the identical data storing because doing so facilitates maintaining the ordering of the data (Stohs; Col 5 Lines 25 – 28).

As per claims 3-4 of the current application, claims 3-4 of the '125 application nearly word for word teaches all the current limitations.

As per claims 5, 7, 11 - 15 of the current application, claims 5, 7, 11 - 15 of the '125 application teaches word for word all of the current limitations.

As per claim 6 of the current application, claim 6 of the '125 application more narrowly teaches all of the current limitations.

As per claims 8 and 16 of the current application, claims 8 and 16 of the '125 application teaches the current limitations because both the current specification and the specification for the '125 application refer to a slice group as a video packet.

As per claim 9 of the current application, claim 9 of the '125 application teaches the state logic machine except that the sequential data words occupy an amount of memory in a first memory; word for word teaches the memory controller; teaches local buffer except the identical sequential portion, and comprising less than the amount of memory occupied by the plurality of sequential data words in the first memory; and teaches a port that is narrower than the port of the current application.

Stohs teaches the sequential data words occupying an amount of memory in a first memory (Stohs; Figure 2 Item 203, Col 5 Lines 13 – 28); and storing the identical sequential portion (Stohs; Figure 3 Item 305, Col 6 Lines 42 – 45).

Therefore it would have been obvious to have modified the teachings of the '125 application to include the identical data storing because doing so facilitates maintaining the ordering of the data (Stohs; Col 5 Lines 25 – 28).

Takeoka teaches a data transferring system that transfers image data from a first memory (Takeoka; Figure 1 Item 12) to a second memory (Takeoka; Figure 2 Item 26). Takeoka teaches that the second memory has the capacity to store only two lines of image data (Takeoka; Col 10 Lines 27 – 30).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the teachings of the '125 application and Stohs to include the smaller memory because doing so would allow for a smaller physical size of the system.

As per claim 10 of the current application, claim 10 of the '125 application word for word teaches the memory controller; teaches the local buffer except the identical sequential portion; and more narrowly teaches the port.

Stohs teaches the sequential data words occupying an amount of memory in a first memory (Stohs; Figure 2 Item 203, Col 5 Lines 13 – 28); and storing the identical sequential portion (Stohs; Figure 3 Item 305, Col 6 Lines 42 – 45).

Therefore it would have been obvious to have modified the teachings of the '125 application to include the identical data storing because doing so facilitates maintaining the ordering of the data (Stohs; Col 5 Lines 25 – 28).

As per claim 17 of the current application, claim 17 of the '125 application teaches the compressed data buffer except that the plurality of sequential data words occupy an amount of memory in the compressed data buffer; the video decoder (See claims 8 and 16 above); the direct memory access engine; word for word teaches the state logic machine and memory controller; teaches the local buffer except the identical sequential portion, and comprising less than the amount of memory occupied by the plurality of sequential data words in the compressed data buffer; and more narrowly teaches the port.

Stohs teaches the sequential data words occupying an amount of memory in a first memory (Stohs; Figure 2 Item 203, Col 5 Lines 13 – 28); and storing the identical sequential portion (Stohs; Figure 3 Item 305, Col 6 Lines 42 – 45).

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Therefore it would have been obvious to have modified the teachings of the '125 application to include the identical data storing because doing so facilitates maintaining the ordering of the data (Stohs; Col 5 Lines 25 – 28).

Takeoka teaches a data transferring system that transfers image data from a first memory (Takeoka; Figure 1 Item 12) to a second memory (Takeoka; Figure 2 Item 26). Takeoka teaches that the second memory has the capacity to store only two lines of image data (Takeoka; Col 10 Lines 27 – 30).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the teachings of the '125 application and Stohs to include the smaller memory because doing so would allow for a smaller physical size of the system.

#### Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 6. Claims 1 16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 7. Claim 1 recites the limitation "storing *the identical sequential portion*" (emphasis added) in line 10 of the claim. There is insufficient antecedent basis for this limitation in the claim.

The Examiner has interpreted the limitation to recite, "storing the sequential portion, the sequential portion being unmodified and unaltered" (emphasis added).

8. Claim 2 recites the limitation "storing *the identical another sequential portion*" (emphasis added) in line 7 of the claim. There is insufficient antecedent basis for this limitation in the claim.

The Examiner has interpreted the limitation to recite, "storing the another sequential portion, the another sequential portion being unmodified and unaltered" (emphasis added).

9. Claim 9 recites the limitation "said method comprising" (emphasis added) in lines 1 and 2 of the claim. There is insufficient antecedent basis for this limitation in the claim.

The Examiner has interpreted the limitation to recite, "said system comprising" (emphasis added).

10. Claim 9 recites the limitation "a local buffer for storing *the identical sequential portion*" (emphasis added) in line 11 of the claim. There is insufficient antecedent basis for this limitation in the claim.

The Examiner has interpreted the limitation to recite, "a local buffer for storing the sequential portion, the sequential portion being unmodified and unaltered" (emphasis added).

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11. Claim 10 recites the limitation "the local buffer stores *the identical another* sequential portion" (emphasis added) in line 7 of the claim. There is insufficient antecedent basis for this limitation in the claim.

The Examiner has interpreted the limitation to recite, "the local buffer stores the another sequential portion, the another sequential portion being unmodified and unaltered" (emphasis added).

12. Claim 17 recites the limitation "a local buffer for storing *the identical sequential* portion" (emphasis added) in line 17 of the claim. There is insufficient antecedent basis for this limitation in the claim.

The Examiner has interpreted the limitation to recite, "a local buffer for storing the sequential portion, the sequential portion being unmodified and unaltered" (emphasis added).

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 13. Claims 1 4, 7, 9 12, and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent No. 4,704,641 (hereinafter Stohs) in view of US Patent No. 6,665,082 (hereinafter Takeoka).

As per claims 1 and 9, Stohs teaches a method for providing a plurality of sequential data words (Stohs; Abstract), said method comprising: receiving a command (Stohs; Figure 1 Item 108, Col 7 Lines 16 – 25) to provide the plurality of sequential data words, the plurality of sequential data words comprises a first data word and a last data word, and one or more data words between the first data word and the last data word, where the first, last, and in between data words occupies an amount of memory in a first memory (Stohs; Figure 2 Item 203, Col 5 Lines 13 – 28); fetching a sequential portion of the sequential data words (Stohs; Col 6 Lines 18 – 35), said sequential portion comprising a first intermediate word, the last word, and one or more data words between the intermediate word and the last word (Stohs; Figure 2 Item 203, Col 5 Lines 13 – 28); storing the identical sequential portion in a second memory (Stohs; Figure 3 Item 305, Col 6 Lines 35 – 55); transmitting at least a portion of the last data word (Stohs; Col 9 Lines 36 – 41); and transmitting at least a portion of the intermediate data

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words after transmitting at least the portion of the last data word (Stohs; Col 9 Lines 36 – 41).

Stohs does not teach wherein the second memory is smaller than the first memory.

However, Takeoka teaches a data transferring system that transfers image data from a first memory (Takeoka; Figure 1 Item 12) to a second memory (Takeoka; Figure 2 Item 26). Takeoka teaches that the second memory has the capacity to store only two lines of image data (Takeoka; Col 10 Lines 27 – 30).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the teachings of Stohs to include the smaller memory because doing so would allow for a smaller physical size of the system.

As per claims 2 and 10, Stohs also teaches fetching another sequential portion of the sequential data words (Stohs; Figure 3 Items 303 - 306, Col 6 Lines 56 - 68), the another sequential portion comprising a second intermediate data word, immediately followed by one or more data words, immediately followed by a third intermediate data word, the third intermediate data word immediately preceding the first intermediate word (Stohs; Figure 3 Items 303 - 306, Col 6 Lines 56 - 68); storing the another identical sequential portion (Stohs; Figure 3 Items 303 - 306, Col 6 Lines 56 - 68); transmitting at least a portion of the third intermediate word; and transmitting at least a portion of the second intermediate word after transmitting at least the portion of the third intermediate word (Stohs; Col 9 Lines 36 - 41).

As per claims 3 and 11, Stohs teaches storing the sequential portion in the second memory, the second memory having a beginning address and an ending address, and wherein at least the portion of the last data word is stored at the ending address and wherein at least the portion of the first intermediate word is stored in the beginning address (Stohs; Figure 6 Item 111, Col 7 Line 56 – Col 8 Line 6).

As per claims 4 and 12, Stohs also teaches wherein the second memory is characterized by a width, and the data words are characterized by a width, the width of the memory being smaller than the width of the data words (Stohs; Figure 6 Items 401a and 401z, Col 6 Lines 56 – 68).

As per claims 7 and 15, Stohs teaches wherein the one or more data words comprise a predetermined number of data words (Stohs; Figure 2 Item 203, Col 5 Lines 13 – 28).

14. Claims 8 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent No. 4,704,641 (hereinafter Stohs) in view of US Patent No. 6,665,082 (hereinafter Takeoka) and further in view of US Patent No. 6,876,705 (hereinafter Katsavounidis).

As per claims 8 and 16, Stohs in combination with Takeoka teaches the system of claims 1 and 9 (see rejection of claims 1 and 9 above).

Stohs in combination with Takeoka does not teach wherein the plurality of sequential data words stores a video packet.

However, Katsavounidis teaches a circuit adapted to recover useful data from a video packet that is at least partially corrupted (Katsavounidis; Figures 7A and 7B Items 700 and 720, Col 2 Lines 44 – 60, and Col 3 Lines 9 – 38).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Stohs in combination with Takeoka to include storing a video packet because doing so allows for decoding a package in both forward and backwards directions to be used to locate a position of an error (Katsavounidis; Col 2 Lines 28 - 43).

15. Claims 5 – 6, and 13 – 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent No. 4,704,641 (hereinafter Stohs) in view of US Patent No. 6,665,082 (hereinafter Takeoka) and further in view of US Patent No. 4,608,633 (hereinafter Boothroyd).

As per claims 5 and 13, Stohs in combination with Takeoka teaches the system of claims 1 and 9 (see rejection of claims 1 and 9 above).

Stohs in combination with Takeoka is silent wherein the last data word comprises at least the portion of the last data word and at least another portion, wherein at least the portion comprises the least significant bits of the last data word, and wherein the at least another portion comprises the most significant bits of the last data word, and

wherein storing the portion further comprises: storing the at least another portion of the last data word at an address preceding the ending address.

However, Boothroyd teaches operand data loaded into stack A (Boothroyd; Figure 12A Item 330) and stack B (Boothroyd; Figure 12A Item 331) comprising at least the portion of the last data word and at least another portion (Boothroyd; Figure 12A Items 330 and 331, Col 12 Lines 10 – 51, Col 13 Lines 32 – 50); and storing the at least another portion of the last data word at an address preceding the ending address (Boothroyd; Figure 12A Items 330 and 331).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the teachings of Stohs in combination with Takeoka to include the steps above because doing so would allow a method for reading operand data stored in a temporary storage memory in a forward or reverse direction, wherein the operand data can be multiple variable length operands (Boothroyd; Col 1 Lines 44 - 50).

As per claims 6 and 14, Boothroyd also teaches transmitting the at least another portion of the last word after transmitting at least the portion of the last word (Boothroyd; Col 13 Line 51 – Col 14 Line 26).

16. Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent No. 4,704,641 (hereinafter Stohs) in view of US Patent No. 6,665,082

(hereinafter Takeoka) further in view of US Patent No 6,876,705 (hereinafter Katsavounidis) and further in view of US Patent No. 4,608,633 (hereinafter Boothroyd).

As per claim 17, Stohs teaches a system comprising a compressed data buffer comprising a plurality of sequential data words (Stohs; Figure 2 Item 111, Figure 3 Item 305, Col 6 Lines 35 - 55); a direct memory access engine (Stohs; Figure 1 Item 104, Col 4 Lines 34 – 41) comprising a state logic machine for receiving a command (Stohs; Figure 1 Item 108, Col 7 Lines 16-25) to provide the plurality of sequential data words and a control signal indicating reverse order (Stohs; Figure 1 Item 105, Col 7 Lines 16 -25), wherein the plurality sequential data words comprises first data word and a last data word, and one or more data words between the first data word and the last data word (Stohs; Figure 2 Item 203, Col 5 Lines 13 – 28); a memory controller for fetching (Stohs; Col 6 Lines 18 – 35) a sequential portion of the sequential data words, said sequential portion comprising a first intermediate word, the last word, and one or more data words between the intermediate word and the last word (Stohs; Figure 2 Item 203, Col 5 Lines 13 – 28); a local buffer (Stohs; Figure 1 Item 111) for storing the identical sequential portion; and a port transmitting (Stohs; Col 9 Lines 36 – 41) at least portion the last data word.

Stohs does not teach wherein the local buffer comprises less than the amount of memory occupied by the plurality of sequential data words in the compressed buffer.

However, Takeoka teaches a data transferring system that transfers image data from a first memory (Takeoka; Figure 1 Item 12) to a second memory (Takeoka; Figure

2 Item 26). Takeoka teaches that the second memory has the capacity to store only two lines of image data (Takeoka; Col 10 Lines 27 – 30).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the teachings of Stohs to include the smaller memory because doing so would allow for a smaller physical size of the system.

Stohs in combination with Takeoka is silent on a video decoder for decoding the video packet.

However, Katsavounidis teaches a video decoder (Katsavounidis; Abstract, Col 19 Lines 43 – 50, Col 20 Lines 13 – 39) for decoding the video packet (Katsavounidis; Figures 7A and 7B Items 700 and 720, Col 2 Lines 44 – 61) and a circuit adapted to recover useful data from a video packet that is at least partially corrupted (Katsavounidis; Figures 7A and 7B Items 700 and 720, Col 2 Lines 44 – 61, and Col 3 Lines 9 – 38).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified the teaching of Stohs in combination with Takeoka to include a video decoder for decoding the video packet because doing so allows for decoding of a packet in both the forward direction and the backward direction which allows locating a position of an error (Katsavounidis; Col 2 Lines 28 – 44).

Stohs in combination with Takeoka and Katsavounidis does not teach transmitting at least a portion the intermediate data words after transmitting at least the portion of the last data word.

However, Boothroyd teaches transmitting the at least another portion of the last word after transmitting at least the portion of the last word (Boothroyd; Col 13 Line 51 – Col 14 Line 26).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the teachings of Stohs in combination with Takeoka and Katsavounidis to include transmitting the intermediate data words after transmitting the last data word because doing so allows multiple variable length operands to be stored in a temporary storage (Boothroyd; Col 1 Lines 44 - 50).

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard Franklin whose telephone number is (571) 272-0669. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Fritz Fleming can be reached on (571) 272-4145. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Richard Franklin Patent Examiner Art Unit 2181

FRITZ FLEMING SUPERVISORY PATENT EXAMINER

12/1/2006